



**Micromeritics Instrument Corp. and Micromeritics Analytical Services**  
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 Surface Area - Porosity - Density - Particle Size, Shape & Count - Catalytic Activity - Surface Energy - Analytical Services

## Cover Sheet



INSTRUMENT CORPORATION  
 ONE MICROMERITICS DR.  
 NORCROSS, GA 30093-1877 U.S.A.

### MSDS GREASE, HIGH VACUUM

						DWN BY	J. Pittman
D	Revision	JP	07/30/04		040295	ENGR	J. Mocny
C	Revision	MD	04/14/03	JM	030229	ENGR	P. Hendrix
B	Revised per ECN	C. Bills	2/22/00		000143	HR	J. Mocny
A	Revised format & numbering	C. Bills	2/9/00	JP	990544	QA	A. Dovin
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REV	REVISION DESCRIPTION	BY	DATE	CHK	REL. NO.		

SIZE	NUMBER	PAGE
A	008/16045/00MSDS	X of 6

# Micromeritics Material Safety Data Sheet

Title : GREASE, HIGH VACUUM  
Date of Preparation : 07/30/04

MSDS No. : 008/16045/00MSDS  
Revision : D

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Grease, High Vacuum

**Chemical Formula:**

**CAS Number:** 007631869

**Other Designations:**

**General Use:**

**Supplier:** Micromeritics Instrument Corp.  
1 Micromeritics Dr.  
Norcross, GA 30093-1877 USA

**Contact:** Human Resources  
**Phone:** (770) 662-3620  
**Fax:** (770) 662-3696

**Manufacturer:** Dow Corning Corporation, South Saginaw Rd., Midland, Michigan 48686  
24 Hr. Emergency: 517-496-5900, CHEMTREC: 800-424-9300  
Product Information: 517-496-6000, Product Disposal Information: 517-496-5813  
Transportation Information: 517-496-8577

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt
Silica, amorphous	007631869	9

**Comments:** The above components are hazardous as defined in 29 CFR 1910.1200.

**Trace Impurities:**

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	H IDLH
Silica, amorphous	15 mg/m <sup>3</sup> total dust, 5mg/m <sup>3</sup> respirable fraction.	none estab.	10 mg/m <sup>3</sup> Total dust	none estab.	none estab.	none estab.	none estab.

## Section 3 - Hazards Identification

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆

<b>HMIS</b>
<b>H</b> 0
<b>F</b> 1
<b>R</b> 0
<b>PPE†</b>
†Sec. 8

### Potential Health Effects

**Acute Effects**

**Inhalation:** No irritation to eyes and respiratory passages. No injury is likely from relatively short exposures of less than 8 hours.

**Eye:** Direct eye contact may cause temporary discomfort with mild redness and dryness similar to windburn.

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**Skin:** A single prolonged exposure (24 to 48 hours) causes no known adverse effect.

**Ingestion:** Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may cause digestive discomfort..

This material contains the following components with the special hazards listed below.

**Carcinogens**

None known

**Teratogens**

None known

**Mutagens**

None known

**Reproductive Toxins**

None Known

**Sensitizes**

None known

Comments: Please read the additional information below.

The above listed potential effects of overexposure are based on actual data, result of studies performed upon similar compositions, component data and/or expert review of the product.

**Section 4 - First Aid Measures**

**Inhalation:** No first aid should be needed.

**Eye Contact:** Immediately flush with water.

**Skin Contact:** No first aid should be needed.

**Ingestion:** No first aid should be needed.

**Comments:** Treat symptomatically.

**Section 5 - Fire-Fighting Measures**

**Flash Point:** 212.00 °F (100°C)

**Autoignition Temperature:** not determined

**Flammability Limits in Air:** None

**Extinguishing Media:** carbon dioxide (CO<sub>2</sub>). Water. Water fog (or spray).

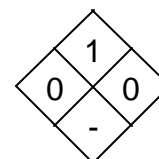
Dry chemical. Foam.

**Unusual Fire or Explosion Hazards:** None

**Hazardous Decomposition Products:** Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

**Fire-Fighting Instructions:** Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

NFPA



## Section 6 - Accidental Release Measures

**Containment/Clean-up:** Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations. Mop up, or wipe up, or soak up with absorbent and contain for salvage or disposal. For large spills, provide diking or other appropriate containment to slippery surfaces by appropriate techniques, such as: washing with mild, caustic detergents or solutions; or high pressure steam for large areas. For nonsilicones, use typical industrial cleaning materials. Observe any being used. Observe all personal protection equipment recommendations described in Sections 5 and 8. Local, state and federal reporting requirements may apply to spills or releases of this material into the environment. See applicable regulatory compliance information in Section 15.

**NOTE:** See Section 8 for Personal Protective Equipment for spills.

## Section 7 - Handling and Storage

**Handling Precautions:** No special precautions

**Storage Requirements:** No special precautions. Use reasonable care.

## Section 8 - Exposure Controls / Personal Protection

### Engineering Controls:

Local Exhaust: None should be needed.

**Ventilation:** Recommended.

**Respiratory Protection:** None should be needed.

**Protective Clothing/Equipment:** Gloves - No special protection needed.

Skin: Washing at mealtime and end of shift is adequate.

Eyes: Use proper protection - safety glasses as a minimum.

Inhalation: No respiratory protection should be needed.

### Personal Protective Equipment for Routine Handling

Eyes: Use proper protection - safety glasses as a minimum.

Skin: Washing at mealtime and end of shift is adequate.

Suitable Gloves: No special protection needed.

Inhalation: No respiratory protection should be needed.

Suitable Respirator: None should be needed.

### Personal Protective Equipment for Spills

Eyes: Use proper protection - safety glasses as a minimum

Skin: Washing at mealtime and end of shift is adequate.

Inhalation/Suitable Respirator: No respiratory protection should be needed.

Precautionary Measures: Avoid eye contact. Use reasonable care.

**NOTE:** These precautions are for room temperature handling. Use at elevated temperature ,or aerosol/spray applications, may require added precautions.

## Section 9 - Physical and Chemical Properties

**Physical State:** Viscous liquid  
**Appearance and Odor:** Translucent white; odorless  
**Vapor Pressure @ 25°C:** not determined.  
**Vapor Density (Air=1):** Not determined  
**Formula Weight:**  
**Density:** not determined  
**Specific Gravity (H<sub>2</sub>O=1, at 25°C):** 1.10  
**pH:** Not Applicable

**Water Solubility:** None  
**Other Solubilities:** None  
**Boiling Point:** Not determined  
**Freezing/Melting Point:** Not applicable  
**Viscosity:** 200000.00 cst  
**Refractive Index:** n/a  
**Surface Tension:** n/a  
**% Volatile:** Not determined  
**Evaporation Rate:** n/a

**NOTE:** *The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.*

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

## Section 10 - Stability and Reactivity

**Stability:** Stable.  
**Polymerization:** Hazardous polymerization will not occur.  
**Conditions to Avoid:** None  
Materials to Avoid: Oxidizing material can cause a reaction.

## Section 11- Toxicological Information

Optional Section - Complete information not yet available.

## Section 12 - Ecological Information

Optional Section - Complete information not yet available

## Section 13 - Disposal Considerations

**Disposal:** Complete information not yet available.  
Call Dow Corning Environmental Mgmt. (517) 496-6315, if more information is desired.

## Section 14 - Transport Information

### DOT Transportation Data (49 CFR 172.101):

Proper Shipping Name: Not available  
Hazard Technical Name: Not available  
Hazard Class: Not available.  
Un/NA Number: Not available  
Packing Group: Not available  
Call Dow Corning Transportation, (517) 496-8577, if additional information is required.

## Section 15 - Regulatory Information

### EPA Regulations:

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.  
TSCA Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

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EPA SARA Title III Chemical Listings:  
 Section 302 Extremely Hazardous Substances: None  
 Section 304 CERCLA Hazardous Substances: None  
 Section 312 Hazard Class:  
 Acute: N  
 Chronic: N  
 Fire: N  
 Pressure: N  
 Reactive: N

Y= Yes      N = No  
 Section 313 Toxic Chemicals:  
 None present or none present in regulated quantities.

Supplemental State Compliance Information

<u>Cas #</u>	<u>WT. %</u>	<u>Component</u>
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California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer.

None known.

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to birth defects or other reproductive harm.

None known.

Massachusetts

007631869	9	Silica, amorphous
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New Jersey

063148629	83	Polydimethylsiloxane
070131678	7	Dimethyl siloxane, hydroxy-terminated
07631869	9	Silica, amorphous fumed; #1655

Pennsylvania

070131678	7	Dimethyl siloxane, hydroxy-terminated
063148629	83	Polydimethylsiloxane
007631869	9	Silica, amorphous

**Section 16 - Other Information**

**Prepared By:** M. Day

**Revision Notes:**

**Disclaimer:** This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures

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*are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.*